

MHC 51
MATERIAL CHECKS

X - DEMONSTRATE
O - OBSERVE

DAMAGE CONTROL/MISCELLANEOUS

	1. SAFETY WALKTHROUGH (All Spaces)	
	2. HALON SYSTEMS	
	a. Halon Switches & Alarms (Q-1) - All Spaces	
	b. Vent Damper Operation	
	c. Halon Actuation (18M-3R) - Space(s) Indicated	
	d. Verify Halon Level/Bottle Pressure/PMS	
	e. CO2 Actuation Bottle PMS	
	f. Shielded Flex Hose Hydrostatic Test Tags	
	3. AFFF SYSTEMS	
	Note: If Qualitative and Quantitative Tests are within periodicity, and certified by the CO, performance of tests will not be required.	
	a. AFFF STA #1	
	- Tank Level	
	- Leakage/Fittings Tight	
	- Valve Alignment/Labeling	
	- Firemain Pressure Gage	
	b. AFFF STA #2	
	- Tank Level	
	- Leakage/Fittings Tight	
	- Valve Alignment/Labeling	
	- Firemain Pressure Gage	
	c. AFFF HOSE REEL STATION (AMR)	
	- Leakage/Fittings Tight	
	- Hose Hydrostatic Test Date	
	- Valve Alignment/Labeling	
	- Hose Reel Carriage Ease of Operation	
	- Anti-Crimp Strap/Tie Down	
	- Nozzle Operation	
	d. AFFF HOSE REEL STATION (MMR)	
	- Leakage/Fittings Tight	
	- Hose Hydrostatic Test Date	
	- Valve Alignment/Labeling	
	- Hose Reel Carriage Ease of Operation	
	- Anti-Crimp Strap/Tie Down	
	- Nozzle Operation	
	e. AFFF BILGE SPRINKLING	
	- Piping/Nozzle Integrity (All Main Spaces)	

	4. PORTABLE CO2	
	a. PMS Tag Properly Filled Out	
	b. Bottle Weight	
	c. Hose and Horn Integrity	
	d. Tamper Seal Integrity	
	5. PORTABLE AFFF	
	a. PMS Tag Properly Filled Out	
	b. Hose and Nozzle Integrity	
	6. PORTABLE PKP	
	a. PMS Tag Properly Filled Out	
	7. EEBDs	
	a. Unit Inspection	
	8. SEEDs	
	a. Unit Inspection	
	9. OBAs	
	a. Unit Inspection	
	10. GENERAL CHECKS (All Spaces)	
	a. Security Locks/Lead Wire Seals	
	b. Flammable Liquid Leaks	
	c. Flange Shields	
	d. Worn/Frayed Wiring	
	e. Machinery Foundation Preservation	
	f. Bilge and Space Cleanliness	
	g. Lagging	
	h. Watertight Fittings and other DC Closures	
	i. Stowage/Securing for Sea	
	j. Photoluminescent Markings	
	k. Heat Stress Contributors	
	11. INSTRUMENTATION (All Spaces)	
	a. Gage Identification/Calibration	
	b. Indicator Lights	
	c. Alarms	

CCS

	12. CONTROL STATION CHECKS	
	a. Bell/Data Logger Test	
	b. Console Self Test (both)	
	c. Console Light Check (both)	
	d. Console Alarm Check (both)	
	e. Console 24vdc Backup Power Supply (UPS)	
	f. Pitch Checks	
	g. Start/Stop Fire Pumps	
	h. Open/Close Firemain Zebra Valve	
	i. Start/Stop/E-Stop SSDGs	
	j. Parallel SSDGs	
	k. Demonstrate SSDG Reverse Power Relays	
	l. Demonstrate All Propulsion Interlocks	
	m. High Temp Alarms	
	n. Flooding Alarms	
	o. Sprinkler Alarms	
	p. Propulsion Control in Full Automatic	
	13. NR 1 SWITCHBOARD	
	a. Ground Test	
	b. Load Shed Test	
	c. Shorting Probe	

AUXILIARY MACHINERY ROOM (AMR)

	14. VENTILATION	
	a. Local and Remote Start/Stop	
	b. Indicator Lights	
	c. Camper Operation	
	d. Cleanliness	
	15. NR 2 FIRE PUMP	
	a. Valve Alignment	
	b. Proper Rotation	
	c. Local and Remote Start/Stop	
	16. FUEL OIL PURIFIER	
	a. Operating Within Normal Parameters	
	b. Local and Remote Start/Emergency Stop	
	c. Leaks/Flange Shields	
	17. NR 1 MPAC	
	a. Sample and Test Lube Oil	
	b. Low Lube Oil Pressure Shutdown	
	c. High Temperature Shutdown	
	d. Auto Start/Stop	
	e. Operating Within Normal Parameters	
	18. ELECTRICAL SYSTEMS	
	a. Test Operate ABTs	
	b. Test Operate MBTs	
	c. Equipment Grounding Straps	
	19. REVERSE OSMOSIS UNIT	
	a. Salinity Panel Operation	
	b. Pump Leak Off	
	c. Dump Valve Operation	
	d. Operating Within Normal Parameters	
	20. ASW COOLING SYSTEM	
	a. Pump Operation and Leak Off	
	b. Align Emergency ASW Reducer from Firemain	
	21. MAIN DRAINAGE (NR 2 EDUCTOR)	
	a. Local/Remote Valve Operation	
	b. Valve Position Indicators	
	c. Eductor Operating Within Normal Parameters	

MAIN MACHINERY ROOM

	22. VENTILATION	
	a. Local and Remote Start/Stop	
	b. Indicator Lights	
	c. Damper Operation	
	d. Cleanliness	
	23. NR 3 FIRE PUMP	
	a. Valve Alignment	
	b. Proper Rotation	
	c. Local and Remote Start/Stop	
	24. NR 2 MPAC	
	a. Sample and Test Lube Oil	
	b. Low Lube Oil Pressure Shutdown	
	c. High Temperature Shutdown	
	d. Auto Start/Stop	
	e. Operating Within Normal Parameters	
	25. ELECTRICAL SYSTEMS	
	a. Test Operate ABTs	
	b. Test Operate MBTs	
	c. Equipment Grounding Straps	
	26. ASW COOLING SYSTEM	
	a. Pump Operation and Leak Off	
	b. Align Emergency ASW Reducer from Firemain	
	27. MAIN DRAINAGE (NR 3 EDUCTOR)	
	a. Local/Remote Valve Operation	
	b. Valve Position Indicators	
	c. Eductor Operating Within Normal Parameters	
	28. NR 1 MPDE	
	a. Sample and Test Lube Oil	
	b. Sample and Test Jacket Water	
	c. Jacket Water High Temp Alarm (Local)	
	d. Jacket Water High Temp Alarm (Remote)	
	e. L/O Filter High Differential Pressure Alarm	
	f. Low L/O Pressure Alarm (Local and Remote)	
	g. Remote Shutdown (Mechanical)	
	h. Fuel Rack and Governor Linkage Inspection	
	i. Operate Pre-Lube Pump	
	j. Low Start Air Alarm	
	k. ASW Emergency Cooling	
	l. Start Air Lubricator	
	m. Flammable Liquid Leaks and Flange Shields	
	n. Combustion Air and Blow-in doors	

	o. Intake Inspection	
	p. Diesel Start Air Reducer	
	q. Enclosure Fans	
	r. F/O Low Pressure Alarm	
	s. Operating Within Normal Parameters	
	29. NR 1 IFVG	
	a. Sample and Test Lube Oil	
	b. Lube Oil Low Pressure Alarm	
	c. Standby Lube Oil Pump Auto Start	
	d. Dump Valve Operation	
	e. Get Home Device	
	f. Lube Oil Leaks and Flange Shields	
	g. Security Locks and Lead Wire Seals	
	h. Operating Within Normal Parameters	
	30. NR 2 MPDE	
	a. Sample and Test Lube Oil	
	b. Sample and Test Jacket Water	
	c. Jacket Water High Temp Alarm (Local)	
	d. Jacket Water High Temp Alarm (Remote)	
	e. L/O Filter High Differential Pressure Alarm	
	f. Low L/O Pressure Alarm (Local and Remote)	
	g. Remote Shutdown (Mechanical)	
	h. Fuel Rack and Governor Linkage Inspection	
	i. Operate Pre-Lube Pump	
	j. Low Start Air Alarm	
	k. ASW Emergency Cooling	
	l. Start Air Lubricator	
	m. Flammable Liquid Leaks and Flange Shields	
	n. Combustion Air and Blow-in doors	
	o. Intake Inspection	
	p. Diesel Start Air Reducer	
	q. Enclosure Fans	
	r. F/O Low Pressure Alarm	
	s. Operating Within Normal Parameters	
	31. NR 2 IFVG	
	a. Sample and Test Lube Oil	
	b. Lube Oil Low Pressure Alarm	
	c. Standby Lube Oil Pump Auto Start	
	d. Dump Valve Operation	
	e. Get Home Device	
	f. Lube Oil Leaks and Flange Shields	
	g. Security Locks and Lead Wire Seals	
	h. Operating Within Normal Parameters	

NR 1 GENERATOR ROOM

	32. VENTILATION	
	a. Local and Remote Start/Stop	
	b. Indicator Lights	
	c. Damper Operation	
	33. NR 1A SSDG	
	a. Sample and Test Lube Oil	
	b. Sample and Test Jacket Water	
	c. Jacket Water High Temp Alarm (Local)	
	d. Jacket Water High Temp Alarm (Remote)	
	e. L/O Filter High Differential Pressure Alarm	
	f. Low L/O Pressure Alarm (Local and Remote)	
	g. Remote Shutdown (Mechanical)	
	h. Fuel Rack and Governor Linkage Inspection	
	i. Operate Pre-Lube Pump	
	j. Low Start Air Alarm	
	k. ASW Emergency Cooling	
	l. Start Air Lubricator	
	m. Flammable Liquid Leaks and Flange Shields	
	n. Combustion Air and Blow-in doors	
	o. Intake Inspection	
	p. Diesel Start Air Reducer	
	q. Enclosure Fans	
	r. F/O Low Pressure Alarm	
	s. Operating Within Normal Parameters	
	34. NR 1B SSDG	
	a. Sample and Test Lube Oil	
	b. Sample and Test Jacket Water	
	c. Jacket Water High Temp Alarm (Local)	
	d. Jacket Water High Temp Alarm (Remote)	
	e. L/O Filter High Differential Pressure Alarm	
	f. Low L/O Pressure Alarm (Local and Remote)	
	g. Remote Shutdown (Mechanical)	
	h. Fuel Rack and Governor Linkage Inspection	
	i. Operate Pre-Lube Pump	
	j. Low Start Air Alarm	
	k. ASW Emergency Cooling	
	l. Start Air Lubricator	
	m. Flammable Liquid Leaks and Flange Shields	
	n. Combustion Air and Blow-in doors	
	o. Intake Inspection	
	p. Diesel Start Air Reducer	
	q. Enclosure Fans	
	r. F/O Low Pressure Alarm	
	s. Operating Within Normal Parameters	

NR 2 GENERATOR ROOM

	35. VENTILATION	
	a. Local and Remote Start/Stop	
	b. Indicator Lights	
	c. Camper Operation	
	d. Cleanliness	
	36. ELECTRICAL SYSTEMS	
	a. Test Operate ABTs	
	b. Test Operate MBTs	
	c. Equipment Grounding Straps	
	37. NR 2 SSDG	
	a. Sample and Test Lube Oil	
	b. Sample and Test Jacket Water	
	c. Jacket Water High Temp Alarm (Local)	
	d. Jacket Water High Temp Alarm (Remote)	
	e. L/O Filter High Differential Pressure Alarm	
	f. Low L/O Pressure Alarm (Local and Remote)	
	g. Remote Shutdown (Mechanical)	
	h. Fuel Rack and Governor Linkage Inspection	
	i. Operate Pre-Lube Pump	
	j. Low Start Air Alarm	
	k. ASW Emergency Cooling	
	l. Start Air Lubricator	
	m. Flammable Liquid Leaks and Flange Shields	
	n. Combustion Air and Blow-in doors	
	o. Intake Inspection	
	p. Diesel Start Air Reducer	
	q. Enclosure Fans	
	r. F/O Low Pressure Alarm	
	s. Operating Within Normal Parameters	

UCHS ROOM

	38. THRUST BEARINGS	
	a. Sample and Test Lube Oil	
	b. Inspect for Leaks	
	39. LINE SHAFT BEARINGS	
	a. Sample and Test Lube Oil	
	b. Inspect for Leaks	
	40. MAIN DRAINAGE	
	a. Local/Remote Valve Operation	
	b. Valve Position Indicators	

VSP PROPELLER ROOM

	41. NR 1 VSP	
	a. Sample and Test Control Oil	
	b. Sample and Test Lube Oil	
	c. Low Control Oil Pressure Alarm	
	d. Control Oil Standby Pump Operation	
	e. Low Lube Oil Pressure Alarm	
	f. Lube Oil Standby Pump Operation	
	g. Operating Within Normal Parameters	
	42. NR 2 VSP	
	a. Sample and Test Control Oil	
	b. Sample and Test Lube Oil	
	c. Low Control Oil Pressure Alarm	
	d. Control Oil Standby Pump Operation	
	e. Low Lube Oil Pressure Alarm	
	f. Lube Oil Standby Pump Operation	
	g. Operating Within Normal Parameters	
	43. MAIN DRAINAGE	
	a. Local/Remote Valve Operation	
	b. Valve Position Indicators	

FWD PUMP ROOM

	44. NR 1 FIRE PUMP	
	a. Valve Alignment	
	b. Proper Rotation	
	c. Local and Remote Start/Stop	
	45. MAIN DRAINAGE (NR 1 EDUCTOR)	
	a. Local/Remote Valve Operation	
	b. Valve Position Indicators	
	c. Eductor Operating Within Normal Parameters	

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